

This listing of claims replaces all prior versions, and listings of claims in the instant application:

Listing of Claims:

In accordance with the Examiner's comments at page 2, paragraph 2, of the Official Action dated April 3, 2006, original Claims 24 to 35, as filed, have been renumbered pursuant to 37 C.F.R. 1.126 as Claims 25 to 36 and all relevant dependencies (renumbered Claims 29 and 36) have also been changed.

1. (Cancelled) - Please cancel Claim 1, without prejudice.

2. (Cancelled) - Please cancel Claim 2, without prejudice.

3. (Cancelled) - Please cancel Claim 3, without prejudice.

4. (Cancelled) - Please cancel Claim 4, without prejudice.

5. (Currently Amended) A dual beam laser aiming module for a firearm comprising:

a dual-laser alignment housing having a first cavity and a second cavity formed therein;

a first laser assembly that is fixed in the first cavity and that has a first beam axis;

a second laser assembly that has a second beam axis and that is adjustably located in the second cavity to provide

the second beam axis substantially parallel to the first beam axis;

a laser housing adapted to be fixed to the firearm and having a cavity formed therein for receiving the dual-laser alignment housing, wherein the dual-laser alignment housing has a rounded exterior surface that interfaces with a corresponding rounded surface in the interior of the cavity of the laser housing; and

adjustment means for adjustably pivoting the dual-laser alignment housing with respect to the laser housing to align the substantially parallel first and second axes further substantially parallel to a centerline of a barrel of the firearm, the adjustment means comprising a four-point laser alignment mechanism for adjustably pivoting the dual-laser alignment housing with respect to the laser housing to align the substantially parallel first and second axes substantially parallel to the centerline of the barrel of the firearm,

~~The dual beam laser aiming module of Claim 4~~

wherein the four-point laser alignment mechanism includes:

a first adjustment screw, an end of which contacts the dual-laser alignment housing and which is aligned for movement in a first direction, the first direction being substantially perpendicular to the centerline of the gun barrel;

a second adjustment screw, an end of which contacts the dual-laser alignment housing and which is aligned for movement in a second direction, the second direction being substantially perpendicular to the centerline of the gun barrel and substantially orthogonal to the first direction of the first adjustment screw; and

two spring-loaded bushings that bias the dual-laser alignment housing against a respective end of the first and the second adjustment screws.

6. (Currently Amended) The dual-beam laser aiming module of Claim 5 wherein the dual-laser alignment housing ~~has an external step in which fits~~ is fitted with an O-ring such that unthreaded side surfaces near the ends of the first and second adjustment screws and side surfaces of the spring-loaded bushings all contact and compress the O-ring to stabilize the position of the dual-laser alignment housing and to attenuate longitudinal movement of the dual-beam alignment housing in the direction of the beam axes.

7. (Currently Amended) ~~The dual beam laser aiming module of Claim 1~~

A dual beam laser aiming module for a firearm comprising:

a dual-laser alignment housing having a first cavity and a second cavity formed therein;

a first laser assembly that is fixed in the first cavity and that has a first beam axis;

a second laser assembly that has a second beam axis and that is adjustably located in the second cavity to provide the second beam axis substantially parallel to the first beam axis;

a laser housing adapted to be fixed to the firearm and having a cavity formed therein for receiving the dual-laser alignment housing, wherein the dual-laser alignment housing has a rounded exterior surface that interfaces with a corresponding rounded surface in the interior of the cavity of the laser housing; and

adjustment means for adjustably pivoting the dual-laser alignment housing with respect to the laser housing to align the substantially parallel first and second axes further substantially parallel to a centerline of a barrel of the firearm, the adjustment means comprising a four-point laser alignment mechanism for adjustably pivoting the dual-laser alignment housing with respect to the laser housing to align the substantially parallel first and second axes substantially parallel to the centerline of the barrel of the firearm, wherein the first laser assembly is press-fit into the first cavity; and

~~wherein~~ the second laser assembly is adjusted to a fixed position in the second cavity with an adhesive material such that the axis of the second beam is fixed to be substantially parallel to the axis of the first beam.

8 (Cancelled) - Please cancel Claim 8 without prejudice.

9. (Currently Amended) The dual beam laser aiming module of Claim ~~4~~ 5 wherein the laser housing includes a LED IR illuminator adapted for use with night vision goggles.

10. (Currently Amended) The dual beam laser aiming module of Claim ~~4~~ 5 including a toggle switch mounted to the laser housing for selecting exclusive operation of either the first laser assembly or of the second laser assembly.

11. (Currently Amended) The dual beam laser aiming module of Claim ~~4~~ 5 wherein the laser housing is adapted to be attached to ~~the barrel of~~ a particular firearm with a corresponding mounting base for the laser housing.

12. (Currently Amended) The dual beam laser aiming module of Claim ~~4~~ 5 wherein the laser housing has a tactical flashlight assembly mounted thereto to provide a multi-operational laser aiming module having both laser and flashlight capabilities.

13. (Original) The dual beam laser aiming module of Claim 12 including a rotary switch mounted to the laser housing for selecting operation selected from the group consisting of: no operation, a tactical light only, the tactical light and a laser only, and a laser only.

14. (Cancelled) - Please cancel Claim 14, without prejudice.

15. (Currently Amended) ~~The dual beam laser aiming module of Claim 14~~

A dual beam laser aiming module for a firearm comprising:

a dual-laser alignment housing having a first cavity and a second cavity formed therein;

a first laser assembly that is fixed in the first cavity and that has a first infrared (IR) laser beam with a first beam axis;

a second laser assembly that has a second visible laser beam with a second beam axis and that is adjustably located in the second cavity to provide the second beam axis substantially parallel to the first beam axis;

a laser housing adapted to be fixed to the firearm and having a cavity formed therein for receiving the dual-laser alignment housing, wherein the dual-laser alignment housing has a rounded exterior surface that interfaces with a

corresponding rounded surface in the interior of the cavity of the laser housing; and

a four-point laser alignment mechanism for adjustably pivoting the dual-laser alignment housing with respect to the laser housing to align the substantially parallel first and second axes substantially parallel to the centerline of the barrel of the firearm, wherein the four-point laser alignment mechanism includes:

a first adjustment screw, an end of which contacts the dual-laser alignment housing and which is aligned for movement in a first direction, the first direction being substantially perpendicular to the centerline of the gun barrel;

a second adjustment screw, an end of which contacts the dual-laser alignment housing and which is aligned for movement in a second direction, the second direction being substantially perpendicular to the centerline of the gun barrel and substantially orthogonal to the first direction of the first adjustment screw; and

two spring-loaded bushings that bias the dual-laser alignment housing against a respective end of the first and the second adjustment screws.

16. (Cancelled) - Please cancel Claim 16, without prejudice.

17. (Currently Amended) ~~The dual beam laser aiming module of Claim 14~~

A dual beam laser aiming module for a firearm comprising:

a dual-laser alignment housing having a first cavity and a second cavity formed therein;

a first laser assembly that is fixed in the first cavity and that has a first infrared (IR) laser beam with a first beam axis;

a second laser assembly that has a second visible laser beam with a second beam axis and that is adjustably located in the second cavity to provide the second beam axis substantially parallel to the first beam axis;

a laser housing adapted to be fixed to the firearm and having a cavity formed therein for receiving the dual-laser alignment housing, wherein the dual-laser alignment housing has a rounded exterior surface that interfaces with a corresponding rounded surface in the interior of the cavity of the laser housing; and

a four-point laser alignment mechanism for adjustably pivoting the dual-laser alignment housing with respect to the laser housing to align the substantially parallel first and second axes substantially parallel to the centerline of the barrel of the firearm, wherein the first IR laser assembly is press-fit into the first cavity; and

wherein the second visible laser assembly is adjusted to a fixed position in the second cavity with an adhesive material such that the axis of the second beam is fixed to be substantially parallel to the axis of the first beam.

18. (Cancelled) - Please cancel Claim 18, without prejudice.

19. (Cancelled) - Please cancel Claim 19, without prejudice.

20. (Cancelled) - Please cancel Claim 20, without prejudice.

21. (Cancelled) - Please cancel Claim 21, without prejudice.

22. (Cancelled) - Please cancel Claim 22, without prejudice.

23. (Currently Amended) ~~The dual beam laser aiming module of Claim 22~~

A dual beam laser aiming module for a firearm comprising:

a dual-laser alignment housing having a first cavity and a second cavity formed therein;

a first laser assembly that is fixed in the first cavity and that has a first infrared (IR) laser beam with a first beam axis;

a second laser assembly that has a second visible laser beam with a second beam axis and that is adjustably located in the second cavity to provide the second beam axis substantially parallel to the first beam axis;

a laser housing adapted to be fixed to the firearm and having a cavity formed therein for receiving the dual-laser alignment housing, wherein the dual-laser alignment housing has a rounded exterior surface that interfaces with a corresponding rounded surface in the interior of the cavity of the laser housing; and

a four-point laser alignment mechanism for adjustably pivoting the dual-laser alignment housing with respect to the laser housing to align the substantially parallel first and second axes substantially parallel to the centerline of the barrel of the firearm, wherein;

the laser housing has a tactical flashlight assembly mounted thereto to provide a multi-operational laser aiming

module having both laser and flashlight capabilities and,
further wherein;

the dual beam laser aiming module includes a rotary
switch mounted to the laser housing for selecting operation
selected from the group consisting of: no operation, the a
tactical light only, the tactical light and a laser only, a
laser only.

24. (Cancelled) - Please cancel Claim 24, without
prejudice.

24 25. (Cancelled) - Please cancel Claim 25, without
prejudice.

25 26. (Cancelled) - Please cancel Claim 26, without
prejudice.

26 27. (Cancelled) - Please cancel Claim 27, without
prejudice.

27 28. (Currently Amended) ~~The method of Claim 24~~
A method of aiming a firearm comprising:
providing a dual-laser alignment housing having a first
cavity and a second cavity formed therein;
fixing a first laser assembly that has a first beam axis
in the first cavity;

adjusting and fixing a second laser assembly that has a
second beam axis in the second cavity and providing the
second beam axis substantially parallel to the first beam
axis;

providing a cavity in a laser housing for receiving the
dual-laser alignment housing and adapting the laser housing
to be fixed to the firearm;

providing the dual-laser alignment housing with a rounded exterior surface and interfacing the rounded exterior surface with a corresponding rounded surface in the interior of the cavity of the laser housing; and

adjustably pivoting the dual-laser alignment housing with respect to the laser housing for aligning the substantially parallel first and second axes further substantially parallel to a centerline of a barrel of the firearm with a four-point laser alignment mechanism, wherein
~~step of~~ adjustably pivoting the dual-laser alignment housing with respect to the laser housing and aligning the substantially parallel first and second axes substantially parallel to the centerline of the barrel of the firearm with a four-point laser alignment mechanism includes:

contacting the dual-laser alignment housing with an end of a first adjustment screw, an end of which contacts the dual-laser alignment housing and which is aligned for movement in a first direction, the first direction being substantially perpendicular to the centerline of the ~~gun~~ barrel;

contacting the dual-laser alignment housing with an end of a second adjustment screw, an end of which contacts the dual-laser alignment housing and which is aligned for movement in a second direction, the second direction being substantially perpendicular to the centerline of the ~~gun~~ barrel and substantially orthogonal to the first direction of the first adjustment screw; and

biasing the dual-laser alignment housing against a respective end of the first and the second adjustment screws with two respective spring-loaded bushings.

~~28~~ 29. (Currently Amended) The method of Claim ~~27~~ 28 including ~~the step of fitting the dual laser alignment housing with an O-ring to an external step in which fits an O-ring, contacting such that the O-ring is in contact with~~ respective unthreaded side surfaces near the ends of the first and second adjustment screws and side surfaces of the spring-loaded bushings, and compressing the O-ring to stabilize the position of the dual-laser alignment housing in order to attenuate longitudinal movement of the ~~dual-beam~~ dual-laser alignment housing in the direction of the beam axes.

~~29~~ 30. (Currently Amended) The method of Claim ~~24~~ 28 including press-fitting the first laser assembly into the first cavity; and

adjusting and fixing the second laser assembly to a fixed position in the second cavity with an adhesive material such that the axis of the second beam is fixed to be substantially parallel to the axis of the first beam.

~~30~~ 31. (Cancelled) - Please cancel Claim 31 without prejudice.

~~31~~ 32. (Currently Amended) The method of Claim ~~24~~ 28 ~~including~~ including illuminating an area with an LED IR illuminator adapted for use with night vision goggles.

~~32~~ 33. (Currently Amended) The method of Claim ~~24~~ 28 including exclusively operating either the first laser assembly or the second laser assembly with a toggle switch mounted to the laser housing.

~~33~~ 34. (Currently Amended) The method of Claim ~~24~~ 28 including ~~the step of~~ attaching ~~the barrel of~~ a particular firearm with a corresponding mounting base for the laser housing.

~~34~~ 35. (Currently Amended) The method of Claim ~~24~~ 28 including ~~the step of~~ mounting a tactical flashlight to the laser housing to provide a multi-operational laser aiming module having both laser and flashlight capabilities.

~~35~~ 36. (Currently Amended) The method of Claim ~~34~~ 35 including selecting with a rotary switch mounted to the laser housing an operation selected from the group consisting of: no operation, a tactical light only, the tactical light and a laser only, and a laser only.

37. (New) The dual beam laser aiming module of Claim 5 wherein the first laser assembly provides an infrared beam.

38. (New) The dual beam laser aiming module of Claim 5 wherein the second laser assembly provides a visible beam.

39. (New) The dual beam laser aiming module of Claim 28 wherein the first laser assembly provides an infrared beam.

40. (New) The dual beam laser aiming module of Claim 28 wherein the second laser assembly provides a visible beam.